Dr. Suriya Priya ASAITHAMBI

Principal Lecturer & Consultant, Software Systems Practice

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Profile

Suriya has twenty years of teaching and consulting experience in areas such as software engineering, application architecture, crafting cloud services, agile development and big data engineering. Her research interest spans around cloud computing, software engineering, test automation and big data engineering. Prior to joining NUS-ISS, she worked as technical consultant in various capacities for software firms and MNCs where her roles and contribution involved application architecture, leadership, and software delivery and stakeholder management. Prior to migrating to Singapore, she was a senior lecturer in School of Computing, SASTRA India.

At sastra, she has taught a range of computing subjects such as parallel & distributed systems, computer algorithms, compiler design and database management. At NUS-ISS, her focus is on different styles of distributed computing. She handles architectural, organizational and engineering aspects of enterprise platforms, grid computing, cloud computing, software development, software testing and big data engineering for analytics.

Suriya is passionate about creating software that is elegantly engineered, user-centric, adaptable, maintainable and lucrative. She has taught international audiences of various background. She enjoys mentoring, teaching and crafting course materials that engages active learning among participants.

In research, Suriya has published research articles in conferences and seminars. She also participates in review and approval of technical references and standards related to Cloud Computing as a member of ITSC, Singapore. In addition to her teaching and research portfolios, Suriya has also contributed as a vendor neutral consultant in various capacities.

Educational Qualifications/Professional Certifications

Educational Qualifications

- Ph.D. (Software Engineering), School of Computing, National University of Singapore
- Master of Engineering (Computer Science), Distinction, Regional Engineering College (Presently NITT), Trichy, India
- Bachelors of Engineering (Computer Science), Bharathidasan University, Trichy, India

Professional Certifications

- Certified by National Grid Office, Singapore GCCC Level 1 and GCCC Level 2 ACM Exam.
- TOGAF 8 Certified Enterprise Architect.
- IBM Certified Web Sphere Professional
- Certified SCRUM Master
- Certified SCRUM Developer

Academic and Professional Experience

- Technical Consultant in various capacities for clients including IBM, Singapore, SCS (currently NCS) Singapore, Deutsche Bank and NIBS Singapore
- Senior Lecturer at SASTRA University, India

Membership and Professional Activities

Memberships

- Singapore Computer Society (SCS) Professional Member
- Institute of Electrical and Electronics Engineers (IEEE) Member
- ITSC Spring Cloud Standards Committee Member
- NICF Subject Expert Panel Member

Selected Key Note Talks

- International Conference on Intelligent Computing and Data Science, ICICDS, SASTRA University, India, 2014
- International Workshop and Conference on Research Contributions in Technology and Applications, IWCRCTA, Anna University, Tirunelveli, India, 2015
- International conference on informatics and analytics, ICIA, Pondicherry engineering college, India 2016

Selected Publications

- Asaithambi, Suriya Priya R., and N. Ramasubramaniam, "Implementation of Object Based Distributed Shared Memory in a Distributed System", International Conference Proceedings, Kalinga IIT, 23rd To 25th Dec 2000, CIT 2000, Bhuvaneshwar, Orissa, India.
- Asaithambi, Suriya Priya R., and Stan Jarzabek. "Generic adaptable test cases for software product line testing: software product line." *Proceedings of the 3rd annual conference on Systems, programming, and applications: software for humanity*. ACM, 2012.

- Venkatraman, Ramanathan, Sitalakshmi Venkatraman, and Suriya Priya Asaithambi. "A Practical Cloud Services Implementation Framework for E-Businesses." *Research and Development in E-Business through Service-Oriented Solutions* (2013): 167.
- Asaithambi, Suriya Priya R., and Stan Jarzabek. "Towards test case reuse: a study of redundancies in android platform test libraries." *Safe and Secure Software Reuse*. Springer Berlin Heidelberg, 2013. 49-64.
- Asaithambi, Suriya Priya R. *Exploiting Similarity Patterns to Build Generic Test Case Templates for Software Product Line Testing*. Diss. 2014.
- Asaithambi, Suriya Priya R., and Stan Jarzabek. "Pragmatic Approach to Test Case Reuse-A Case Study in Android OS BiDiTests Library." *Software Reuse for Dynamic Systems in the Cloud and Beyond*. Springer International Publishing, 2015. 122-138.

Courses

Professional Courses

- NICF – Software Testing
- NICF - Cloud Economics and Technology for Practitioners
- Java Web Services and Security for Practitioners

Postgraduate Courses

- Enterprise Java
- Cloud Computing
- Software Product Line Engineering
- Big Data Engineering for Analytics

What I Teach

SOFTWARE SYSTEMS

NUS Graduate Diploma in Systems Analysis - Capstone & Internship

ARTIFICIAL INTELLIGENCE

NICF- Business Analysis for Agile Practitioners

SOFTWARE SYSTEMS

Information Architecture for Data-driven Insights

SOFTWARE SYSTEMS

Cloud Native Solution Design

DIGITAL AGILITY

Agile Testing

DATA SCIENCE

Big Data Engineering for Analytics

SOFTWARE SYSTEMS

Architecting Systems For Real Time Data Processing

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NUS Certificate in Digital Solutions Development – Web Applications

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